IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

LAMPORT

Group Art Unit: Unassigned

Application No. Unassigned

Examiner: Unassigned

Filed: December 30, 2003

For: SIMPLIFIED PAXOS

Certificate of Mailing Under 37 CFR 1.10

I hereby certify that this INFORMATION DISCLOSURE STATEMENT and all accompanying documents are being deposited with the United States Postal Service "Express Mail Post Office To Addressee" Service, Express Mail Label No. EV 329735559 US, under 37 CFR 1.10 on the date indicated below and is addressed to: Mail Stop Patent Application, Commissioner for Patents, P. Q. Box 1450,

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Date

INFORMATION DISCLOSURE STATEMENT

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

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Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

within any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.
after (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes <i>one</i> of:
the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).
the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).
after the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and on or before payment of the issue fee, and includes the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).
after the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and within thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below). NOTE: This is for original applications except applications for a design patent, filed on or after May 29, 2000, wherein a paper containing only an Information Disclosure Statement in compliance with 37 CFR 1.97 and 1.98 is being filed.

Copies of the References

Copies of the references listed on the enclosed Form 1449 are enclosed herewith. Attached to each reference not in the English language is a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3). An English-language equivalent/patent, or an

	by a foreign patent relevance found by	bstract, or an English-lat office in a counterpart the foreign office is being suant to 37 CFR 1.98(a)	foreign appling submitted	cation indica	iting the degree of
	A copy of the foreign	gn search report is enclos	sed herewith.		
	application(s) of the that time. According as not to burden the requested to careful in the Manual of P details of the parent	ed on the enclosed Form the present application, and apply, additional copies of the file with duplicate copies. It is review the references atent Examining Proced that application(s) relied upon the references were previous	nd copies of the reference of reference of reference in accordance. In accordance on for an earlier	ne references is are not sub- is. The Exam- ie with the re- lance with 3 er filing date	were furnished a mitted herewith, so iner is respectfully equirements set ou 7 CFR 1.98(d), the under 35 USC 120
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2.					
3.					<u> </u>
State	ment under 37 CFR	1.97(e)			
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Fees	
	No fee is owed by the applicant(s). The IDS Fee of \$180 under 37 CFR 1.17(p) is enclosed herewith.
Metho	d of Payment of Fees
	Attached is a check in the amount of \$. Charge Deposit Account No. 12-1216 in the amount of \$. (A duplicate copy of this communication is enclosed for that purpose.)
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	Vladan M. Vasiljevic, Reg. No. 45,177 LEYDIG, VOIT & MAYER, LTD. Two Prudential Plaza, Suite 4900 180 North Stetson Chicago, Illinois 60601-6780 (312) 616-5600 (telephone) (312) 616-5700 (facsimile)
Date: I	December 30, 2003
IDS (Revi	sed 5/21/03)

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Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 1 of

Complete if Known				
Application Number	Unassigned			
Filing Date	December 30, 2003			
First Named Inventor	Lamport			
Group Art Unit	Unassigned			
Examiner Name	Unassigned			
Attorney Docket Number	224006			

	U.S. PATENT DOCUMENTS					
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Examiner Initials	Doc. No.	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate
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Examiner Initials	Doc. No.	Office	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Yes	No*+
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	Ι_	OTHER - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item	Trans	slation
Examiner Initials	Doc. No.	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	No*+
	АА	LAMPORT, Leslie, "Time, Clocks, and the Ordering of Events in a Distributed System", Communication of the ACM, 21(7):558-565, July 1978		
	ΑВ	LAMPORT, Leslie, "The Part-Time Parliament", ACM Transactions on Computer Systems 16, 2 (May 1998), pp. 133-169. Also appeared as SRC Research Report 49		
	AC	LAMPORT, Leslie, "Paxos Made Simple", ACM SIGACT News (Distributed Computing Column), 32,4 (Whole Number 121, December 2001) pp. 18-25		
	AD	LAMPSON, Butler W., "The ABCD's of Paxos", Presented at <i>Principles of Distributed Computing</i> , 2001, as one of the papers celebrating Leslie Lamport's 60 th Birthday, retrieved from http://research.microsoft.com/lampson/65-ABCDPaxos/Acrobat.pdf		
	AE	CASTRO, Miguel, et al., "Practical Byzantine Fault Tolerance", appears in <i>Proceedings</i> of the Third-Symposium on Operating Design and Implementation, New Orleans, USA, February 1999, pp. 1-14		
	AF	CASTRO, Miguel, et al., "Proactive Recovery in a Byzantine-Fault-Tolerant System", appears in the <i>Proceedings of the Fourth Symposium on Operating Systems Design and Implementation</i> (OSDI '00), San Diego, USA, October 2000, pp. 1-15	_	
	AG	HUANG, Yennun, et al., "Software Rejuvenation: Analysis, Module and Applications", Proc. International Symposium on Fault Tolerant Computing, pp. 381-390, (1995)		
	АН	BRACHA, Gabriel, "An asynchronous $\lfloor (\eta - 1)/3 \rfloor$ —resilient consensus protocol" this paper was presented at the <i>ACM Symposium on Principles of Distributed Computing</i> 1984, pp. 154-162		
	ΑI	KEIDAR, Idit, et al., "Moshe: A Group Membership Service for WANs" to appear in ACM Transactions on Computer Systems (TOCS), August 2002, pp. 1-47		

AJ	KHAZAN, Roger, I., "A One-Round Algorithm for Virtually Synchronous Group Communication in Wide Area Networks", PH.D. dissertation, Department of Electrical Engineering and Computer Science. MIT., May 22, 2002. Thesis Supervisors: Prof. Nancy A. Lynch and Dr. Idit Keidar. Retrieved from http://theroy.1cs.mit.edu/~roger/Research/Papers /khazan-phd.pdf	
AK	ANCEAUME et al., "Converging Toward Decision Conditions" 6 th International Conference on Principles of Distributed Systems, France, pp. 53-63 (December 11-13, 2002)	
AL	MOSTEFAOUI et al., "IRISA Research Report Number 1355" (October 2000)	
AM		
AN	Schneider, F.; Implementing Fault-tolerant Services Using the State Machine Approach: A Tutorial; Computing Surveys, 22(3):299–319, September 1990.	
AO	Deswarte, Y. et al; <i>Intrusion Tolerance in Distributed Computing Systems</i> ; Proceedings of the 1991 IEEE Symposium on Research in Security and Privacy; pp. 110-121, May 1991.	
АР	Canetti, R. et al.; Fast asynchronous Byzantine agreement with optimal resilience; Proc. 25th Annual ACM Symposium on Theory of Computing (STOC), pp. 42–51, 1993.	
AQ	Reiter, M; How to Securely Replicate Services; ACM Transactions on Programming Languages and Systems, Vol. 16, No. 3, pp. 986-1009, May 1994.	
AR	Reiter, M. K.; Secure Agreement Protocols: Reliable and Atomic Group Multicast in Rampart; Proceedings of the 2nd ACM Conference on Computer and Communications Security, pages 68-80, Fairfax, Virginia, November 1994.	
AS	Gong, L. et al.; Byzantine Agreement With Authentication: Observations and Applications in Tolerating Hybrid and Link Faults; Dependable Computing for Critical Applications – 5, pages 79-90, IFIP WG 10.4, preliminary proceedings, 1995.	
АТ	Reiter, M. K.; The Rampart toolkit for building high-integrity services; Theory and Practice in Distributed Systems, International Workshop, Selected Papers, Lecture Notes in Computer Science, vol. 938, K. P. Birman, F. Mattern, and A. Schiper, Eds., Springer-Verlag, Berlin, 99–110, 1995.	
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AX	Malkhi, D. et al.; <i>Byzantine Quorum Systems</i> ; <u>Proceedings of the 29th ACM Symposium on Theory of Computing</u> , May 1997.	
AY		
AZ	Kihlstrom, K. P. et al.; Solving Consensus in a Byzantine Environment Using an Unreliable Fault Detector; Proceedings of the International Conference on Principles of Distributed Systems (OPODIS'97), Hermes, Chantilly, France, 61–76, 1997.	

ВА	Kihlstrom, K. P. et al.; The SecureRing Protocols for Securing Group Communication; Proceedings of the 31st Hawaii International Conference on System Sciences, Vol. 3, pp. 317-326, Jan 1998.	·
ВВ	Malkhi, D. et al.; Secure and Scalable Replication in Phalanx; Proceedings of the 17th IEEE Symposium on Reliable Distributed Systems; p. 51-58, West Lafayette, Indiana, USA, Oct 1998.	
ВС	Malkhi, D. et al.; <i>Byzantine Quorum Systems</i> ; <u>Distributed Computing</u> ; Volume 11, number 4, p. 203–213, 1998.	
ВD	Goldberg, A. et al.; <i>Towards an Archival Intermemory</i> ; <u>International Forum on Research and Technology Advances in Digital Libraries</u> ; IEEE, pp. 147-156, 1998.	
BE	Hartman, J.H. et al.; <i>The Swarm Scalable Storage System</i> ; 19th ICDCS; pp. 74-81, 1999.	

Examiner Signature	Date Considered

^{*} A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).